NC/QC/YD/2019-20/W6-NM-C1 **Date: 18-11-2019**

## 1. TEST REPORT ON CEMENT:

**Sub**: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Providing new borewells and CC Roads, drains development in Nagawara, Mestripalya and other adjacent Layouts.}
**Ref.**: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

### PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

**TABLE 1.1:**

| SL No | Name of Test | Test Results | Requirements as per IS 8112-1989 |
|---|---|---|---|
| 1 | Initial setting time | **162 min** | Shall not be less than 30 min |
| 2 | Final setting time | **275 min** | Shall not be more than 600 min |
| 3 | Fineness (by dry sieving on IS 90 micron sieve) | **2.12%** | Not to exceed 10.0% |
| 4 | Soundness test(by Le-Chatelier's method) | **2.09 mm** | Shall not be more than 10 mm |
| 5 | Compressive strength<br>a) 3 days (average of three results) | **28.74 N/Sq mm** | Shall not be less than 27 N/Sqmm |

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

**Page No. 1/1,**

For Newzen Consultants Bangalore
Proprietor

NC/QC/YD/2019-20/W6-NM-PCC1 **Date: 18-11-2019**

## 1. TESTING OF COARSE AND FINE AGGREGATES:

**Sub**: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Providing new borewells and CC Roads, drains development in Nagawara, Mestripalya and other adjacent Layouts.}
**Ref.**: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

## 1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

| IS Sieve Size, mm | Percentage passing | Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing | |
|---|---|---|---|
| | 40 mm Sample | Single size | Graded |
| 40mm | **100.00** | 85-100 | 90 – 100 |
| 20mm | **64.95** | 0 -20 | 30- 70 |
| 10mm | **29.30** | 0 -5 | 10- 35 |
| 4.75mm | **4.10** | ------ | 0- 5 |

## 2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

| IS Sieve Size, mm | Percentage Passing | Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing | | | Remarks |
|---|---|---|---|---|---|
| | | Zone-I | Zone-II | Zone -III | |
| 04.75 | **98.10** | 90-100 | 90-100 | 90-100 | The Sample Conforms to Grading **Zone-II** |
| 02.36 | **82.65** | 60-95 | 75-100 | 85-100 | |
| 01.18 | **76.80** | 30-70 | 55-90 | 75-100 | |
| 600.mic | **52.35** | 15-34 | 35-59 | 60-79 | |
| 300.mic | **23.75** | 5-20 | 8-30 | 12-40 | |
| 150.mic | **6.45** | 0-10 | 0-10 | 0-10 | |

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

For Newzen Consultants Bangalore

Proprietor



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EMAIL:newzen576@gmail.com

NC/QC/YD/2019-20/W6-NM-C2 Date: 22-11-2019

## 1. TEST REPORT ON CEMENT:

**Sub**: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Providing new borewells and CC Roads, drains development in Nagawara, Mestripalya and other adjacent Layouts.}
**Ref.**: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

### PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

**TABLE 1.1:**

| SL No | Name of Test | Test Results | Requirements as per IS 8112-1989 |
|---|---|---|---|
| 1 | Initial setting time | **156 min** | Shall not be less than 30 min |
| 2 | Final setting time | **270 min** | Shall not be more than 600 min |
| 3 | Fineness (by dry sieving on IS 90 micron sieve) | **1.98 %** | Not to exceed 10.0% |
| 4 | Soundness test(by Le-Chatelier's method) | **1.82 mm** | Shall not be more than 10 mm |
| 5 | Compressive strength<br>a) 3 days (average of three results) | **28.46 N/Sq mm** | Shall not be less than 27 N/Sqmm |



For Newzen Consultants Bangalore

Proprietor

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NC/QC/YD/2019-20/W6-NM-CA1 **Date: 22-11-2019**

## 1. TESTING OF COARSE AGGREGATES (20 mm):

**Sub**: Testing of Construction Materials.
{Project*: Providing new borewells and CC Roads, drains development in Nagawara, Mestripalya and other adjacent Layouts.}
**Ref.**: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

**Table - 1.1 : SIEVE ANALYSIS :**

| IS Sieve Size, mm | Percentage passing | Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing | |
|---|---|---|---|
| | 20 mm Sample | Single size | Graded |
| 40 mm | **100.00** | 100.00 | 100.00 |
| 20 mm | **95.60** | 85-100 | 90 - 100 |
| 10 mm | **48.05** | 0 - 20 | 25 - 55 |
| 4.75 mm | **3.40** | 0 - 5 | 0 - 10 |

**TABLE 1.2 :**

| SL No | Test conducted | Results | Requirements as per IS:383-1970 & Tests Conforms to IS 2386( Part I to IV) – 1963 ( Reaffirmed on 2002) |
|---|---|---|---|
| 1. | Flakiness Index | **25.78%** | Not to exceed 25 % |
| 2. | Crushing value | **27.59 %** | Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces |

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Proprietor



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NC/QC/YD/2019-20/W6-NM-S1

Date: 25-11-2019

## 1. TEST REPORT ON REINFORCEMENT STEEL:

**Sub**: Testing of Reinforcement Steel of diameter 10 mm **TMT Steel.**
{Project*: Providing new borewells and CC Roads, drains development in Nagawara, Mestripalya and other adjacent Layouts.}
**Ref.**: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

Asst. Executive Engineer Project Division Yelahanka Range

**TABLE – 1**

| Sl No | Details | For 10 mm | |
|---|---|---|---|
| | | Test Results | Min Req as per IS 1786-2008 |
| 01 | Observed diameter of bar | **10.0 mm** | 10.0 mm |
| 02 | Observed Wt/m Length **Kg/m** | **0.621** | 0.567 |
| 03 | Proof stress/Yield stress, fy , **N/mm$^2$** | **541.0** | 500.0 |
| 04 | Bend/ Re bend Test | **Ok** | --- |
| 05 | Percentage of Elongation, % | **20.50** | 12.00 |
| 06 | Ultimate Tensile Strength **N/mm$^2$** | **638.0** | 545.0 |

For Newzen Consultants Bangalore
Proprietor



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NC/QC/YD/2019-20/W6-NM-CB1 **Date: 12-12-2019**

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Providing new borewells and CC Roads, drains development in Nagawara, Mestripalya and other adjacent Layouts.}
**Ref.**: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

### RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : $M_{20}$

Asst. Executive Engineer Project Division Yelahanka Bangalore

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 05-12-19 | 12-12-19 | 07 | 22500 | 380 | 16.89 | **16.52** |
| | 002 | " | " | " | " | 360 | 16.00 | |
| | 003 | " | " | " | " | 375 | 16.67 | |

For Newzen Consultants Bangalore
Proprietor



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NC/QC/YD/2019-20/W6-NM-CB2

Date: 14-12-2019

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Providing new borewells and CC Roads, drains development in Nagawara, Mestripalya and other adjacent Layouts.}
**Ref.**: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

### RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

### CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : $M_{20}$

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 07-12-19 | 14-12-19 | 07 | 22500 | 365 | 16.22 | **16.15** |
| | 002 | " | " | " | " | 370 | 16.44 | |
| | 003 | " | " | " | " | 355 | 15.78 | |

For Newzen Consultants Bangalore
Proprietor



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EMAIL:newzen576@gmail.com

NC/QC/YD/2019-20/W6-NM-CB3 Date: 17-12-2019

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Providing new borewells and CC Roads, drains development in Nagawara, Mestripalya and other adjacent Layouts.}
**Ref.**: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

### RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : $M_{20}$

Asst. Executive Engineer, Project Division, Yelahanka Zone, BBMP

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 10-12-19 | 17-12-19 | 07 | 22500 | 360 | 16.00 | **16.37** |
| | 002 | " | " | " | " | 380 | 16.89 | |
| | 003 | " | " | " | " | 365 | 16.22 | |



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Proprietor

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NC/QC/YD/2019-20/W6-NM-CB4 **Date: 20-12-2019**

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Providing new borewells and CC Roads, drains development in Nagawara, Mestripalya and other adjacent Layouts.}
**Ref.**: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

### RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : $M_{20}$

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 13-12-19 | 20-12-19 | 07 | 22500 | 365 | 16.22 | **16.30** |
| | 002 | " | " | " | " | 360 | 16.00 | |
| | 003 | " | " | " | " | 375 | 16.67 | |

For Newzen Consultants Bangalore
Proprietor



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NC/QC/YD/2019-20/W6-NM-CB1A

Date: 02-01-2020

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Providing new borewells and CC Roads, drains development in Nagawara, Mestripalya and other adjacent Layouts.}
**Ref.**: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

### RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : $M_{20}$

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 05-12-19 | 02-01-20 | 28 | 22500 | 505 | 22.44 | **22.07** |
| | 002 | " | " | " | " | 490 | 21.78 | |
| | 003 | " | " | " | " | 495 | 22.00 | |

Assistant Executive Engineer, Project Division, Yelahanka

For Newzen Consultants Bangalore
Proprietor



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NC/QC/YD/2019-20/W6-NM-CB2A

Date: 04-01-2020

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Providing new borewells and CC Roads, drains development in Nagawara, Mestripalya and other adjacent Layouts.}
**Ref.**: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

### RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : $M_{20}$

Asst. Executive Engineer
Project Division
Yelahanka Zone
Bangalore

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 07-12-19 | 04-01-20 | 28 | 22500 | 510 | 22.67 | **22.67** |
| | 002 | " | " | " | " | 500 | 22.22 | |
| | 003 | " | " | " | " | 520 | 23.11 | |

**Page No. 1/1,**

For Newzen Consultants Bangalore

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NC/QC/YD/2019-20/W6-NM-CB3A

Date: 07-01-2020

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Providing new borewells and CC Roads, drains development in Nagawara, Mestripalya and other adjacent Layouts.}
**Ref.**: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

### RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : $M_{20}$

Asst. Executive Engineer, Project Division, Yelahanka Zone, Bangalore

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 10-12-19 | 07-01-20 | 28 | 22500 | 495 | 22.00 | **22.15** |
| | 002 | " | " | " | " | 505 | 22.44 | |
| | 003 | " | " | " | " | 495 | 22.00 | |



For Newzen Consultants Bangalore

Proprietor

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EMAIL:newzen576@gmail.com

NC/QC/YD/2019-20/W6-NM-CB4A

Date: 10-01-2020

## 1. TEST REPORT ON CEMENT CONCRETE CUBES:

**Sub**: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Providing new borewells and CC Roads, drains development in Nagawara, Mestripalya and other adjacent Layouts.}
**Ref.**: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

### RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

### CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : $M_{20}$

Asst. Executive Engineer Project Division Yelahanka Zone BBMP

**TABLE 1.1:**

| Sl No | Location/ Identification* | Date of Casting* | Date of Testing | Age in Days | C/S Area in $mm^2$ | Maximum Load in K.N | Compressive Strength ($N/mm^2$) | Avg. Value |
|---|---|---|---|---|---|---|---|---|
| 1 | 001 | 13-12-19 | 10-01-20 | 28 | 22500 | 500 | 22.22 | **22.52** |
| | 002 | " | " | " | " | 515 | 22.89 | |
| | 003 | " | " | " | " | 505 | 22.44 | |

For Newzen Consultants Bangalore

Proprietor



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NC/QC/YD/2019-20/W6-NM-K1 **Date: 03-01-2020**

# TEST REPORT

**Sub**: Testing of Pre-cast Material-Kerb Stones.
{Project*: Providing new borewells and CC Roads, drains development in Nagawara, Mestripalya and other adjacent Layouts.}
**Ref.**: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP

## 1. PHYSICAL TESTS ON KERB STONES :

| Sl No. | Identification | Flexural strength, fcr in N/sqmm | Characteristic Compressive Strength, fck in N/sqmm | Avg. Characteristic. Compressive Strength fck in N/sqmm | Remarks |
|---|---|---|---|---|---|
| 1 | 001 | 3.35 | 22.95 | **22.83** | As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck |
| 2 | 002 | 3.29 | 22.10 | | |
| 3 | 003 | 3.39 | 23.45 | | |

## 2. WATER ABSORPTION TEST

| Sl No | Identification | Water absorption % | Average value % |
|---|---|---|---|
| 1 | 001 | 4.49 | **4.49** |
| 2 | 002 | 4.38 | |
| 3 | 003 | 4.61 | |

For Newzen Consultants Bangalore

Proprietor



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NC/QC/YD/2019-20/W6-NM-K2

Date: 06-01-2020

# TEST REPORT

**Sub**: Testing of Pre-cast Material-Kerb Stones.
{Project*: Providing new borewells and CC Roads, drains development in Nagawara, Mestripalya and other adjacent Layouts.}
**Ref.**: Material testing/PMC/19-20,
Report Required for: Assistant Executive Engineer,
Yelahanka Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

Asst. Executive Engineer, Project Division, Yelahanka, Bangalore

## 1. PHYSICAL TESTS ON KERB STONES :

| Sl No | Identification | Flexural strength, fcr in N/sqmm | Characteristic Compressive Strength, fck in N/sqmm | Avg. Characteristic. Compressive Strength fck in N/sqmm | Remarks |
|---|---|---|---|---|---|
| 1 | 001 | 3.31 | 22..40 | **22.98** | As per Cl. 6.2.2 of IS 456- 2000, fcr=0.7√ fck |
| 2 | 002 | 3.39 | 23.45 | | |
| 3 | 003 | 3.36 | 23.10 | | |

## 2. WATER ABSORPTION TEST

| Sl No | Identification | Water absorption % | Average value % |
|---|---|---|---|
| 1 | 001 | 4.59 | **4.64** |
| 2 | 002 | 4.71 | |
| 3 | 003 | 4.64 | |

For Newzen Consultants Bangalore

Proprietor



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